



Marchwood Scientific Services

Unit 4G Central Crescent,
Marchwood Industrial Park,
Marchwood,
Southampton, Hants,
SO40 4BJ

Tel: 02380-669126

Fax: 02380-669127

Name of Client : Shanks plc

Test Certificate No: BH4 0.3m

Address : Pontyvelin House, New Inn, Pontypool, Gwent

ANALYSIS OF PCBs

Job Reference: Golder Associates
Sample Identifier : BH4 0.3m
Sample No: 105-2175
Order No: Ponty008

Date of Receipt : 27/09/05
Date of Analysis : 05/10/05
Date of Report : 10/10/05
No of Samples in Batch : 21
Sample Condition : normal

Instrument : Micromass Ultima NT
GC Column : DB5
Calibration File : 051005

Test Method : 1122
Blank : 105-2189
Sample Size : 9.5

expressed as ng / g

Congener	Conc	DL	Rec %
PCB-28	9.1738	0.0002	67
PCB-52	5.8584	0.0001	51
PCB-101	9.0544	0.0003	79
PCB-118	7.9347	0.0002	
PCB-138	18.7771	0.0012	73
PCB-153	10.9970	0.0017	68
PCB-180	15.5291	0.0006	61

Conc Concentration
DL Detection Value
* Isomer Not detected

Name of Analyst : K Pettit
Position : Technical Manager

Signature of Analyst :





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Name of Client : Shanks plc
Address : New Inn, Pontypool, Gwent, S Wales

Test Certificate No: 105-2496

ANALYSIS OF PCBs

Job Reference: Shanks - Pontypool
Sample Identifier : BH24 1.30M
Sample No: 105-2496
Order No:

Date of Receipt : 02/11/05
Date of Analysis : 17/11/05
Date of Report : 18/11/05
No of Samples in Batch : 4
Sample Condition : normal

Instrument : Micromass Ultima NT
GC Column : DB5
Calibration File : 151105

Test Method : 1122
Blank :
Sample Size : 10.1

expressed as ng / g

Congener	Conc	TEFs	TEQ ¹	TEQ ²	DL	Rec %
PCB-81	0.0052	0.00010	0.0000	0.0000	0.0003	89
PCB-77	0.0337	0.00010	0.0000	0.0000	0.0003	80
PCB-123	0.0610	0.00010	0.0000	0.0000	0.0003	107
PCB-118	0.3562	0.00010	0.0000	0.0000	0.0003	104
PCB-114	0.0044	0.00050	0.0000	0.0000	0.0003	111
PCB-105	0.1351	0.00010	0.0000	0.0000	0.0004	80
PCB-126	0.0024	0.10000	0.0002	0.0002	0.0004	106
PCB-167	0.0184	0.00001	0.0000	0.0000	0.0004	103
PCB-156	0.0492	0.00050	0.0000	0.0000	0.0004	94
PCB-157	0.0097	0.00050	0.0000	0.0000	0.0005	92
PCB-169	0.0001	0.01000	0.0000	0.0000	0.0005	84
PCB-189	0.0064	0.00010	0.0000	0.0000	0.0007	90
TEQ (WHO)			0.0003	0.0003		

* Isomer Not detected
TEQ Toxic Equivalent Value
TEF Toxic Equivalent Factor
Conc Concentration
DL Detection Value

TEQ¹ Concentration of Non Detected
Congeners at Detection Limit
TEQ² Concentration of Non Detected
Congeners at Zero

Name of Analyst : K Pettit
Position : Technical Manager

Signature of Analyst : 





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Name of Client : Shanks plc
Address : New Inn, Pontypool, Gwent, S Wales

Test Certificate No: 105-2497

ANALYSIS OF PCBs

Job Reference: Shanks - Pontypool
Sample Identifier : BH30 1.50M
Sample No: 105-2497
Order No:

Instrument : Micromass Ultima NT
GC Column : DB5
Calibration File : 151105

Date of Receipt : 02/11/05
Date of Analysis : 17/11/05
Date of Report : 18/11/05
No of Samples in Batch : 4
Sample Condition : normal

Test Method : 1122
Blank :
Sample Size : 10.0

expressed as ng / g

Congener	Conc	TEFs	TEQ ¹	TEQ ²	DL	Rec %
PCB-81	0.0177	0.00010	0.0000	0.0000	0.0001	74
PCB-77	0.0971	0.00010	0.0000	0.0000	0.0001	84
PCB-123	0.3531	0.00010	0.0000	0.0000	0.0002	114
PCB-118	1.3048	0.00010	0.0001	0.0001	0.0001	114
PCB-114	0.0063	0.00050	0.0000	0.0000	0.0001	115
PCB-105	0.3405	0.00010	0.0000	0.0000	0.0002	118
PCB-126	0.0078	0.10000	0.0008	0.0008	0.0002	117
PCB-167	0.0706	0.00001	0.0000	0.0000	0.0002	112
PCB-156	0.1852	0.00050	0.0001	0.0001	0.0002	107
PCB-157	0.0362	0.00050	0.0000	0.0000	0.0002	103
PCB-169	0.0007	0.01000	0.0000	0.0000	0.0002	95
PCB-189	0.0419	0.00010	0.0000	0.0000	0.0002	99
TEQ (WHO)			0.0011	0.0011		

* Isomer Not detected
TEQ Toxic Equivalent Value
TEF Toxic Equivalent Factor
Conc Concentration
DL Detection Value

TEQ¹ Concentration of Non Detected
Congeners at Detection Limit
TEQ² Concentration of Non Detected
Congeners at Zero

Name of Analyst : K Pettit
Position : Technical Manager

Signature of Analyst :





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Name of Client : Shanks plc

Test Certificate No: BH74 0.5m

Address : Pontyvelin House, New Inn, Pontypool, Gwent

ANALYSIS OF PCBs

Job Reference: Golder Associates
Sample Identifier : BH74 0.5m
Sample No: 105-2172
Order No: Ponty008

Date of Receipt : 27/09/05
Date of Analysis : 05/10/05
Date of Report : 10/10/05
No of Samples in Batch : 21
Sample Condition : normal

Instrument : Micromass Ultima NT
GC Column : DB5
Calibration File : 051005

Test Method : 1122
Blank : 105-2189
Sample Size : 10.2

expressed as ng / g

Congener	Conc	DL	Rec %
PCB-28	4.1813	0.0001	99
PCB-52	1.8148	0.0003	76
PCB-101	4.6429	0.0002	72
PCB-118	5.4969	0.0001	
PCB-138	12.8506	0.0086	66
PCB-153	7.0455	0.0076	75
PCB-180	10.3887	0.0006	85

Conc Concentration
DL Detection Value
* Isomer Not detected

Name of Analyst : K Pettit
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Name of Client : Shanks plc

Test Certificate No: BH90 0.6m

Address : Pontyvelin House, New Inn, Pontypool, Gwent

ANALYSIS OF PCBs

Job Reference: Golder Associates

Sample Identifier : BH90 0.6m

Sample No: 105-2174

Order No: Ponty008

Instrument : Micromass Ultima NT

GC Column : DB5

Calibration File : 051005

Date of Receipt : 27/09/05

Date of Analysis : 05/10/05

Date of Report : 10/10/05

No of Samples in Batch : 21

Sample Condition : normal

Test Method : 1122

Blank : 105-2189

Sample Size : 1.0

expressed as ng / g

Congener	Conc	DL	Rec %
PCB-28	18.5890	0.0001	118
PCB-52	13.9463	0.0005	87
PCB-101	24.4949	0.0008	73
PCB-118	20.3449	0.0006	
PCB-138	53.0073	0.0011	70
PCB-153	34.8341	0.0009	85
PCB-180	28.4364	0.0005	94

Conc Concentration
DL Detection Value
* Isomer Not detected

Name of Analyst : K Pettit
Position : Technical Manager

Signature of Analyst :





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Name of Client : Shanks plc
Address : Pontyvelin House, New Inn, Pontypool, Gwent

Test Certificate No: BH96 0.5m

ANALYSIS OF PCBs

Job Reference: Golder Associates
Sample Identifier : BH96 0.5m
Sample No: 105-2170 pcb
Order No: Ponty008

Date of Receipt : 27/09/05
Date of Analysis : 05/10/05
Date of Report : 10/10/05
No of Samples in Batch : 21
Sample Condition : normal

Instrument : Micromass Ultima NT
GC Column : DB5
Calibration File : 051005

Test Method : 1122
Blank : 105-2189
Sample Size : 10.1

expressed as ng / g

Congener	Conc	DL	Rec %
PCB-28	2.5462	0.0003	57
PCB-52	0.9186	0.0002	55
PCB-101	2.7202	0.0002	64
PCB-118	2.7791	0.0001	
PCB-138	7.2161	0.0014	63
PCB-153	4.4331	0.0012	75
PCB-180	4.3945	0.0001	91

Conc Concentration
DL Detection Value
* Isomer Not detected

Name of Analyst : K Pettit
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Signature of Analyst :





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Name of Client : Shanks plc
Address : New Inn, Pontypool, Gwent, S Wales

Test Certificate No: 105-2494

ANALYSIS OF PCBs

Job Reference: Shanks - Pontypool
Sample Identifier : GS 4 duplicate PCB sample
Sample No: 105-2494
Order No:

Date of Receipt : 02/11/05
Date of Analysis : 01/12/05
Date of Report : 06/12/05
No of Samples in Batch : 4
Sample Condition : normal

Instrument : Micromass Ultima NT
GC Column : DB5
Calibration File : 011205cal

Test Method : 1180
Blank :
Sample Size : 0.2

expressed as ng / g

Congener	Conc	TEFs	TEQ ¹	TEQ ²	DL	Rec %
PCB-81	15.3047	0.00010	0.0015	0.0015	0.0400	153
PCB-77	319.6733	0.00010	0.0320	0.0320	0.0333	161
PCB-123	365.5213	0.00010	0.0366	0.0366	0.5800	98
PCB-118	1363.3033	0.00010	0.1363	0.1363	0.5400	102
PCB-114	75.1860	0.00050	0.0376	0.0376	0.6133	108
PCB-105	1073.2520	0.00010	0.1073	0.1073	0.6067	111
PCB-126	33.1207	0.10000	3.3121	3.3121	0.8133	124
PCB-167	210.7620	0.00001	0.0021	0.0021	0.0467	121
PCB-156	568.1060	0.00050	0.2841	0.2841	0.0467	118
PCB-157	92.7840	0.00050	0.0464	0.0464	0.0467	116
PCB-169	2.2600	0.01000	0.0226	0.0226	0.0533	120
PCB-189	78.3287	0.00010	0.0078	0.0078	0.0333	101
TEQ (WHO)			4.0264	4.0264		

* Isomer Not detected
TEQ Toxic Equivalent Value
TEF Toxic Equivalent Factor
Conc Concentration
DL Detection Value

TEQ¹ Concentration of Non Detected
Congeners at Detection Limit
TEQ² Concentration of Non Detected
Congeners at Zero

Name of Analyst : K Pettit
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Name of Client : Shanks plc
Address : New Inn, Pontypool, Gwent, S Wales

Test Certificate No: 105-2495

ANALYSIS OF PCBs

Job Reference: Shanks - Pontypool
Sample Identifier : GS 5 duplicate PCB sample
Sample No: 105-2495
Order No:

Date of Receipt : 02/11/05
Date of Analysis : 01/12/05
Date of Report : 06/12/05
No of Samples in Batch : 4
Sample Condition : normal

Instrument : Micromass Ultima NT
GC Column : DB5
Calibration File : 011205cal

Test Method : 1180
Blank :
Sample Size : 0.2

expressed as ng / g

Congener	Conc	TEFs	TEQ ¹	TEQ ²	DL	Rec %
PCB-81	53.8373	0.00010	0.0054	0.0054	0.1200	121
PCB-77	41.8847	0.00010	0.0042	0.0042	0.1067	143
PCB-123	218.0720	0.00010	0.0218	0.0218	17.0000	91
PCB-118	2877.5520	0.00010	0.2878	0.2878	16.2533	109
PCB-114	203.3860	0.00050	0.1017	0.1017	20.1800	99
PCB-105	2741.8913	0.00010	0.2742	0.2742	19.2067	104
PCB-126	216.0640	0.10000	21.6064	21.6064	25.9600	108
PCB-167	765.4440	0.00001	0.0077	0.0077	0.1333	107
PCB-156	1710.2147	0.00050	0.8551	0.8551	0.1333	105
PCB-157	309.6773	0.00050	0.1548	0.1548	0.1400	104
PCB-169	15.0593	0.01000	0.1506	0.1506	0.1667	106
PCB-189	234.3627	0.00010	0.0234	0.0234	0.1200	97
TEQ (WHO)			23.4930	23.4930		

* Isomer Not detected
TEQ Toxic Equivalent Value
TEF Toxic Equivalent Factor
Conc Concentration
DL Detection Value

TEQ¹ Concentration of Non Detected
Congeners at Detection Limit
TEQ² Concentration of Non Detected
Congeners at Zero

Name of Analyst : K Pettit
Position : Technical Manager

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